

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: February 8, 1991  
Date Submitted: January 31, 1991  
Project: Metro Self Monitoring, P.O. #18661

RESULTS OF ANALYSES OF THE SLUDGE SAMPLE  
FOR TCLP METALS IN ACCORDANCE WITH  
40 CFR PART 261  
Results Reported as mg/L (ppm)

<u>Sample #</u>	<u>M18661</u>	<u>Regulatory Level</u>
<u>Analyte:</u>		
Arsenic	0.31 <sup>a</sup>	5.0
Barium	0.03	100
Cadmium	0.03	1.0
Chromium	7.5 <sup>a</sup>	5.0
Lead	0.27 <sup>a</sup>	5.0
Mercury	0.05 <sup>a</sup>	0.2
Selenium	0.27 <sup>a</sup>	1.0
Silver	0.02	5.0

<sup>a</sup> - The analyte indicated was also found in the blank sample.

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FOR TCLP METALS IN ACCORDANCE WITH  
40 CFR PART 261  
Results Reported as mg/L (ppm)  
Quality Assurance**

<u>Sample #</u>	<u>Method Blank</u>	<u>M18661 Duplicate</u>	<u>Regulatory Level</u>
<u>Analyte:</u>			
Arsenic	0.03	0.19 <sup>a</sup>	5.0
Barium	<0.01	0.06	100
Cadmium	<0.01	0.02	1.0
Chromium	0.05	4.4 <sup>a</sup>	5.0
Lead	0.01	0.17 <sup>a</sup>	5.0
Mercury	0.02	0.14 <sup>a</sup>	0.2
Selenium	0.02	0.14 <sup>a</sup>	1.0
Silver	<0.01	0.02	5.0

<sup>a</sup> - The analyte indicated was also found in the blank sample.

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**RESULTS OF ANALYSES OF THE SLUDGE SAMPLE  
FOR TCLP METALS IN ACCORDANCE WITH  
40 CFR PART 261  
Results Reported as % Recovery  
TCLP Extract Spiked at the Indicated Level  
Quality Assurance**

<u>Sample #</u>	M18661 Matrix Spike Spiked @ 50 ppm % Recovery	M18661 Matrix Spike Duplicate Spiked @ 50 ppm % Recovery
<u>Analyte:</u>		
Arsenic	130%	130%
Barium	82%	74%
Cadmium	121%	119%
Chromium	80%	102%
Lead	106%	104%
Mercury	78%	80%
Selenium	117%	114%
Silver	24%	27%

3008-B 16<sup>th</sup> Avenue West  
Seattle, WA 98119

### Chain of Custody Record

1-TSB-A

DATE: 1/31/91

PROJECT NAME: METRO SELF MONITORING  
PROJECT LOCATION: PORTLAND  
SITE NUMBER: \_\_\_\_\_

Relinquished by: (Signature) NAME: <u>Richard A. Spear</u>	Date: _____	Received by: (Signature) NAME: _____	Date: <u>1-31-91</u>
RM: <u>Alaskan Copper</u> Furnished by: (Signature) _____	Time: _____ Date: _____	FIRM: <u>FRIEDMAN &amp; BRYA</u> Received by: (Signature) NAME: _____	Time: _____ Date: _____
	Time: _____	FIRM: _____	Time: _____